

AMENDMENT

Please amend the claims as follows:

Please cancel claims 31, 41 and 47, without prejudice.

32. The expression vector of claim [31] 52 wherein said fusion immunoglobulin comprises a heavy chain and [has said] at least one [tolerogenic] epitope [inserted] positioned adjacent to the first framework region of the N-terminus variable region of [the] said heavy chain.

33. The vector of claim [31] 52 which is a retroviral vector.

34. The vector of claim [31] 52 wherein said antigen mediates [is associated with] an allergic reaction [and is] to an antigen selected from the group consisting of: pollen antigen, ragweed antigen, [or] and dust mite antigen.

35. The expression vector of claim [31] 52 wherein said antigen is an autoantigen of an expression host cell and is selected from the group consisting of: clotting factor VIII, acetylcholine receptors, collagen, myelin basic protein, thyroglobulin, and histocompatibility antigen.

36. The expression vector of claim [31] 52 which contains more than one copy of the nucleotide sequence encoding said epitope.

37. The expression vector of claim [31] 52 wherein the fusion immunoglobulin is an IgG.

38. The expression vector of claim [31] 52 which [has] comprises the identifying characteristics of ATCC No. 69555.

39. A transformed haemopoietic or lymphoid cell comprising the expression vector of claim [31] 52.

42. The expression vector of claim [41] 53 wherein said antigen mediates [is associated with] autoimmune disease or allergic reactions [of] in said [animal] mammal.

44. The expression vector of claim 42 wherein said antigen is an autoantigen and is selected from the group consisting of: clotting factor VIII, acetylcholine receptors, collagen, myelin basic protein, thyroglobulin, and histocompatibility antigen.

45. The expression vector of claim [41] 53 which contains more than one copy of the nucleotide sequence encoding said epitope.

46. A transformed haemopoietic or lymphoid cell comprising the expression vector of claim [41] 53.

48. The expression vector of claim [47] 54 wherein said antigen is associated with autoimmune disease or allergic reactions of said [animal] mammal.

50. The expression vector of claim 48 wherein said antigen is an autoantigen and is selected from the group consisting of: clotting factor VIII antigen, acetylcholine receptors antigen, collagen antigen, myelin basic protein antigen, thyroglobulin antigen, and histocompatibility antigen.

51. A transformed haemopoietic or lymphoid cell comprising the expression vector of claim [41] 53.

Please add the following new claims:

--52. (New) An expression vector comprising:

a nucleotide sequence encoding a fusion immunoglobulin heavy or light chain operably linked to a promoter sequence operational for expression of said nucleotide sequence in a haemopoietic or lymphoid cell in a mammalian host;

wherein said fusion immunoglobulin comprises: an N-terminal variable region^① of said heavy or light chain; and wherein said N-terminal variable region further comprises^② at least one amino acid sequence that encodes an antigen epitope heterologous to said host cell; and

wherein the expression of said vector in said haemopoietic or lymphoid cell of said fusion immunoglobulin induces immunological tolerance to said antigen epitope in said mammalian host. 112/2nd

53. (New) An expression vector comprising:

a nucleotide sequence encoding a fusion immunoglobulin heavy or light chain operably linked to a promoter sequence operational for expression of said nucleotide sequence in a haemopoietic or lymphoid cell in a mammalian host;

wherein said fusion immunoglobulin comprises: an N-terminal variable region of said heavy or light chain; and wherein said N-terminal variable region further comprises at least one amino acid sequence that encodes an antigen epitope heterologous to said host cell; and

wherein the expression of said vector in said haemopoietic or lymphoid cell of said fusion immunoglobulin induces immunological tolerance to said antigen epitope in said mammalian host; and wherein said vector is a retroviral vector.

54. (New) An expression vector comprising:

a nucleotide sequence encoding a fusion immunoglobulin heavy or light chain operably linked to a promoter sequence operational for expression of said nucleotide sequence in a haemopoietic or lymphoid cell in a mammalian host;

wherein said fusion immunoglobulin comprises: an N-terminal variable region of said heavy or light chain; and wherein said N-terminal variable region further comprises at least one amino acid sequence that encodes an antigen epitope heterologous to said host cell; and

wherein the expression of said vector in said haemopoietic or lymphoid cell of said fusion immunoglobulin induces immunological tolerance to said antigen epitope in said mammalian host; and wherein said vector is a retroviral vector; and